

Title (en)  
VEHICLE ENERGY-SAVING CONTROL METHOD, STORAGE MEDIUM, VEHICLE CONTROL SYSTEM, AND VEHICLE

Title (de)  
ENERGIESPARENDES FAHRZEUGSTEUERUNGSVERFAHREN, SPEICHERMEDIUM, FAHRZEUGSTEUERUNGSSYSTEM UND FAHRZEUG

Title (fr)  
PROCÉDÉ DE COMMANDE D'ÉCONOMIE D'ÉNERGIE DE VÉHICULE, SUPPORT DE STOCKAGE, SYSTÈME DE COMMANDE DE VÉHICULE ET VÉHICULE

Publication  
**EP 4265899 A1 20231025 (EN)**

Application  
**EP 21908608 A 20210806**

Priority  
• CN 202011514486 A 20201221  
• CN 2021111086 W 20210806

Abstract (en)  
Disclosed in the present invention are a vehicle energy saving control method, a storage medium, a vehicle control system and a vehicle. The vehicle energy saving control method comprises: obtaining a load threshold corresponding to each gear position of a multi-power switch; obtaining an actual load value by a load sensor when the vehicle starts; determining a corresponding gear position according to the actual load value and the load threshold, and switching the multi-power switch to the corresponding gear position; obtaining road information ahead of the vehicle when the vehicle is driving, wherein the road information comprises a curvature radius of a corner ahead of the vehicle; calculating equivalent mass according to the curvature radius, total mass of the vehicle, a speed of the vehicle and a preset road friction coefficient; determining a predicted gear position according to the sum of the actual load value and the equivalent mass; and switching the multi-power switch to the predicted gear position if the predicted gear position is different from the current gear position. The present invention can solve the problem of energy waste caused by the power output mismatch when the vehicle passes the corner.

IPC 8 full level  
**F02D 29/02** (2006.01)

CPC (source: CN EP US)  
**F16H 59/44** (2013.01 - CN US); **F16H 59/52** (2013.01 - CN EP US); **F16H 59/66** (2013.01 - CN US); **F16H 59/70** (2013.01 - US); **F16H 61/0213** (2013.01 - CN EP US); **F16H 59/44** (2013.01 - EP); **F16H 2059/666** (2013.01 - EP US); **F16H 2061/0015** (2013.01 - CN EP); **F16H 2061/022** (2013.01 - CN); **F16H 2061/0234** (2013.01 - CN)

C-Set (source: EP)  
**F16H 59/44 + F16H 59/52 + F16H 59/66 + F16H 61/0213 + F16H 2061/0015 + F16H 2061/022 + F16H 2061/0234**

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

Designated validation state (EPC)  
KH MA MD TN

DOCDB simple family (publication)  
**EP 4265899 A1 20231025**; CN 112728068 A 20210430; CN 112728068 B 20211221; US 11982347 B2 20240514; US 2024102553 A1 20240328; WO 2022134603 A1 20220630

DOCDB simple family (application)  
**EP 21908608 A 20210806**; CN 202011514486 A 20201221; CN 2021111086 W 20210806; US 202118254417 A 20210806